

# Simaant Patil

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Data Scientist with 3.5 years of experience, proficient in Python, SQL, and dashboard development, focusing on healthcare data analytics and machine learning. Experienced in delivering impactful solutions through academic and professional projects and a passion for leveraging AI and ML advancements to create a positive change in society.

## SKILLS

**Tools and Languages:** Git/GitHub, Excel, Jupyter Notebooks, MySQL, PostgreSQL, Python, SQL

**Cloud Technologies:** AWS(Redshift, S3, EC2), Microsoft Azure

**Data Analytics:** Regression Analysis, Hypothesis Testing, Time Series Analysis, Descriptive Analysis

**Machine Learning:** Supervised Learning, Unsupervised Learning, Natural Language Processing

**Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Plotly

## WORK EXPERIENCE

### **Ascend Innovations**

**Dayton, OH**

*Data Scientist - Risk Stratification Analysis, Dashboard Development*

*Jan 2021 - Present*

- Applied SQL and Python for efficient extraction, cleaning, and feature engineering of hospital datasets across 10 networks.
- Developed and deployed Power BI dashboards to visualize key factors leading to a 30 percent increase in hospitalizations and overdoses, enabling local health authorities to target interventions.
- Leveraged Python (with NumPy, Pandas, and Scikit-learn) to identify high-risk patients for overdosing within a cohort of 500,000 individuals.
- Applied PCA for dimensionality reduction and XGBoost and Logistic Regression models, achieving 70 percent prediction accuracy, and reducing emergency interventions by 20 percent.
- Spearheaded the acquisition of patient data from 20 mental health boards, optimizing SQL-based data storage and management processes, significantly reducing retrieval times for critical information.
- Automated data ingestion into Power BI and Tableau dashboards, enabling continuous monitoring of health metrics across 10 Ohio counties and hospitals to help them make data-driven decisions and allocate resources effectively.

## PROJECT EXPERIENCE

### **iConsult Collaborative - Syracuse University**

**Syracuse, NY**

*Data Analyst*

*Feb 2019 - May 2020*

- Partnered with cross-functional teams to analyze patient data and uncover disease patterns across multiple counties, enabling strategic, data-driven decisions for optimized healthcare resource allocation.
- Streamlined ETL processes by utilizing SSIS packages and SQL, achieving a 20 percent increase in efficiency and ensuring accurate, seamless data integration for actionable insights.
- Designed and delivered interactive Tableau dashboards, incorporating advanced geospatial visualizations to highlight disease prevalence, empowering stakeholders to implement targeted interventions and improve public health outcomes.

### **NEXIS Technology Lab - Syracuse University**

**Syracuse, NY**

*Machine Learning Researcher*

*Aug 2019 - May 2020*

- Collected and analyzed data from 8 million Windows machines using Python, uncovering key insights to assess malware infection probabilities across large-scale systems.
- Applied Apache Spark for efficient feature engineering, isolating critical attributes such as OS type, RAM, and antivirus configurations to enhance data quality and model performance.
- Developed and deployed predictive models using Support Vector Machines (SVM) and Logistic Regression, achieving 72 percent accuracy in identifying high-risk systems, and enabling proactive threat mitigation.

## EDUCATION

**Syracuse University**, *Master of Science in Information Management and Data Science*

*Aug 2018 - May 2020*

**University of Mumbai**, *Bachelor of Technology in Electronics*

*Aug 2014 - May 2018*

## EDUCATION

**Finance Chair**, *iSchool Student Organization*

*Aug 2019 - May 2020*